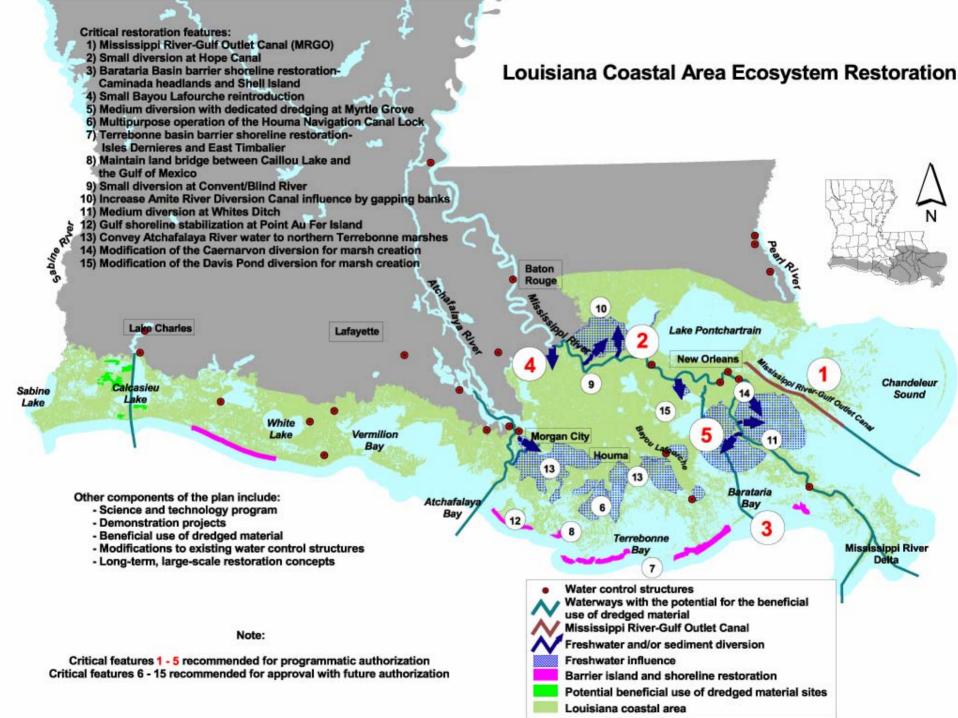
Restoration & Protection in the Louisiana Coastal Area



La. Coastal Area Plan Components

- Near-term Critical Restoration Features for Conditional Authorization.
- Other Near-term Critical Restoration Features Recommended for Study and Future Congressional Authorization.
- Science and Technology (S&T) Program.
- Science and Technology Program Demonstration Projects.
- Programmatic Authorization for the Beneficial-Use of Dredged Material Program.
- Programmatic Authorization for Investigations of Modifications to Existing Structures.
- Large-scale and Long-term Concepts Requiring Detailed Studies.



LCA Plan Cost Table

Conditionally Authorized Near-term Features	\$828,300,000
Science & Technology Program	\$100,000,000
Demonstration Projects Program	\$ 95,000,000
Beneficial Use Dredge Material Program	\$100,000,000
Investigation of Modifications to Existing Structures	\$10,000,000

Total Conditionally Authorized Components \$1,123,300,000

Near-term Feature Decision Documents	\$70,000,000
Large-scale, Long-term Studies	\$60,000,000
Investigations of Modification to Existing Structures	\$10,000,000
Demonstration Project Decision Documents	\$5,000,000

Total Currently Authorized Investigations \$145,000,000

Total Congressionally Authorized Components \$728,200,000

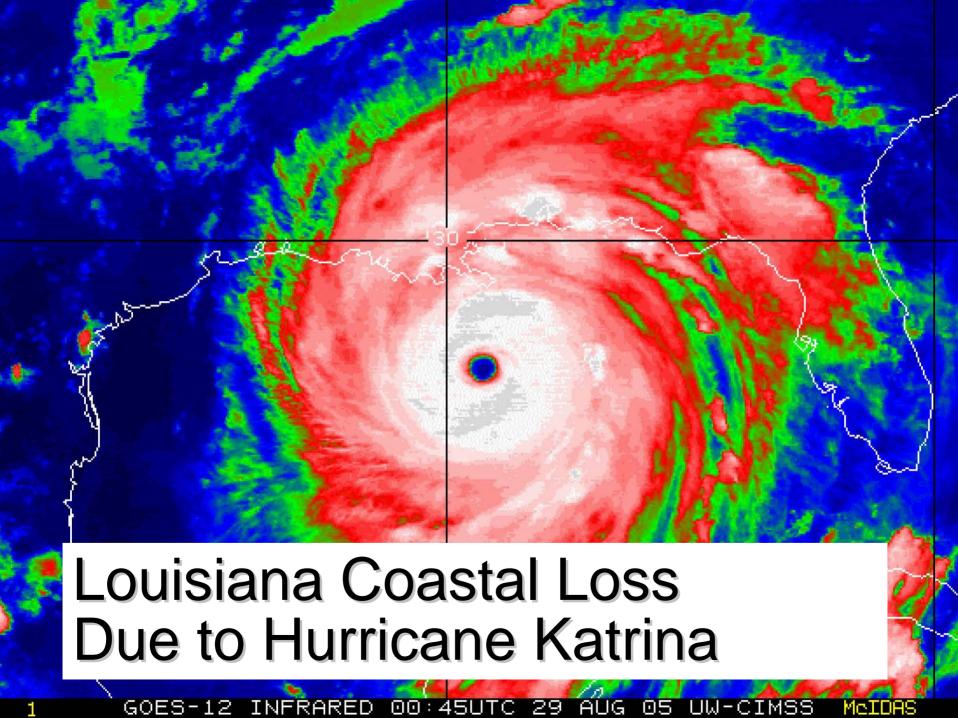
Total LCA Ecosystem Restoration \$1,996,500,000

LCA Plan Status

- Chief of Engineers Report & Federal / State partnering agreement signed on January 31st
- Expecting Congressional action on the LCA Plan in 2005
- Federal 2005 budget contained \$8.5 million for LCA
- Federal 2006 budget provides \$21 million for LCA
- State cost sharing expenditures 50/50

FY 2005 Work

- Science & Technology (S&T) Program development
- Barrier Shoreline Feasibility Study completion
- Long-range Beneficial Use of Dredged Material plan development
- St Bernard & Vicinity Ecosystem Restoration plan development and Pontchartrain basin hydrologic assessment
- Development of Long-distance Sediment Transport Demonstration
 Project (through S&T Program)
- Initiation of Davis Pond and Caernaryon Diversions modification studies
- Additional LCA Plan feature development

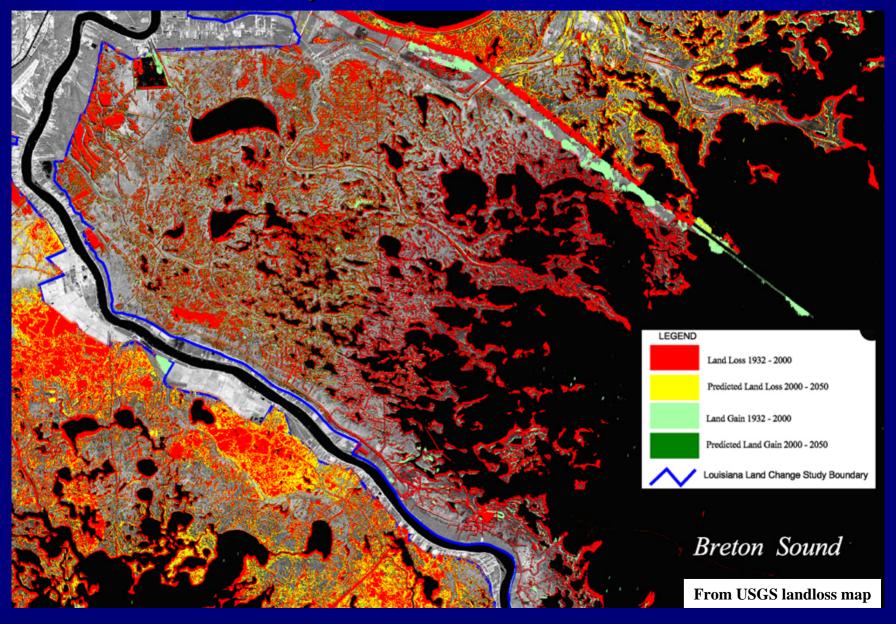








Historic and Projected Landloss in the Vicinity of the Caernarvon Diversion



Landsat Thematic Mapper 5 Hurricane Katrina Comparison Images Upper Breton Sound Area

April 16, 2004 September 7, 2005



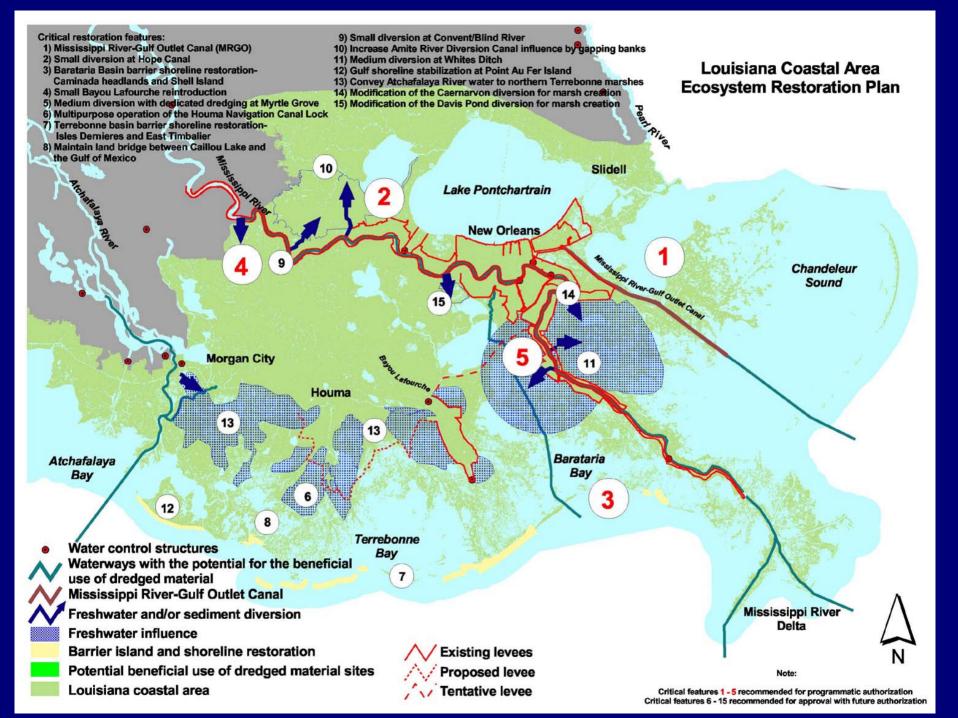
Source: USGS NWRC Landsat Thematic Mapper Satellite Imagery provided by EROS Data Center Bands 4 (near-ir), 5 (mid-ir), and 3 (visible red) displayed



Strategic Natural Lines of Defense

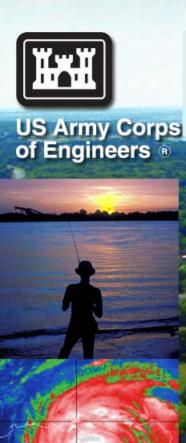


LCA Plan and Protection Levees Existing or Under Study



Prioritization

- The LCA Near-term Plan and earlier larger plans provide restoration coincident with the existing or proposed storm protection
- The five critical features recommended for conditional authorization provide benefit to lines of defense
- Areas of increased priority:
 - Beneficial Use of Dredged Material
 - **▶ Modifications to Existing Structures**







Infrastructure







Communities



Shrimp boat in marsh near Dulac, Louisiana



Pointe A La Hache River levee



Marine One over Cameron LA after
Hurricane Rita



Direction of Congress

- Design flood control, coastal restoration, and hurricane protection measures...
- Storm surge equivalent to a Category 5 hurricane
- Close coordination with the State of Louisiana



Team Composition

We will work with the public and meet the direction of Congress

- US Army Corps of Engineers
- LA Coastal Protection & Restoration Authority
- LA Dept. of Natural Resources
- LA Dept. of Transportation& Development
- LA Dept. of Wildlife & Fisheries
- LA Dept. of Environmental Quality
- Louisiana State Univ
- Univ New Orleans
- Tulane Univ
- Notre Dame Univ

- Univ North Carolina
- Univ Maryland
- Univ Delaware
- MIT
- Others educational institutions
- NOAA Hurricane Center
- US Environmental Protection Agency
- National Marine Fisheries Service
- US Fish & Wildlife Service
- US Geological Survey
- US Natural Resources
 Conservation Service
- Dutch Rijkswaterstaat



Planning and Design Workshops

Problem Definition

- Wind, Waves and Water (Dec 2005 Vicksburg, MS)
- **Initial Plan Formulation** (Feb 2006 Lafayette, LA)
- **Engineering Technical Approaches and** Innovations (Mar 2006 Vicksburg, MS)

Implementation

- **Public Scoping Meetings (Mar 2006)**
- Follow up meetings (ongoing)



Reports to Congress **Schedules**

- Due for submittal in June 2006
 - Preliminary Technical Report
- Due to Congress in December 2007
 - Final Technical Report
 - Programmatic Environmental Impact **Statement**



Preliminary Technical Report Outline

- THREATS What storm are we designing against?
 - Category 5 winds, surge and waves
- **RISKS** What is at stake?
 - Communities, industries, coastal resources, strategic resources
- PLANS What can be done to protect against design storm threats?



Ongoing Planning Efforts

CPRA Integrated Master Plan

Complete draft October 2006.

USACE Plan

Preliminary Technical Report, June 2006.

Final Technical Report, December 2007.

LRA Louisiana Speaks initiative

Complete December 2006.



Additional Information www.lca.gov www.lca.gov www.lacpr.usace.army.mil

SW Pass Light, MS River delta